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	Application No.	Applicant(s)	,
Notice of Allowability	10/734,387	HANCOCK ET AL.	
	Examiner	Art Unit	
	Cindy D. Khuu	2863	
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT I of the Office or upon petition by the applicant. See 37 CFR 1.31	S (OR REMAINS) CLOSED ir 5) or other appropriate commu RIGHTS. This application is s	nthis application. If not included unication will be mailed in due course	e. THIS le initiative
1. This communication is responsive to		•	
2. ⊠ The allowed claim(s) is/are <u>1-90</u> .			
3. $igotimes$ The drawings filed on <u>12 December 2003</u> are accepted b	y the Examiner.		
 4. ☐ Acknowledgment is made of a claim for foreign priority of a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 	ve been received.	•	
3. Copies of the certified copies of the priority d	ocuments have been receive	d in this national stage application fro	om the
International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received:	٠.		•
Applicant has THREE MONTHS FROM THE "MAILING DATE noted below. Failure to timely comply will result in ABANDON THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		a reply complying with the requirem	ents
5. A SUBSTITUTE OATH OR DECLARATION must be sub- INFORMAL PATENT APPLICATION (PTO-152) which gi			∃ OF
6. CORRECTED DRAWINGS (as "replacement sheets") mi	ust be submitted.		
(a) including changes required by the Notice of Draftspe	rson's Patent Drawing Review	v (PTO-948) attached	
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date	 •		
(b) ☐ including changes required by the attached Examine Paper No./Mail Date	r's Amendment / Comment or	in the Office action of	
Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in	1.84(c)) should be written on to the header according to 37 CF	ne drawings in the front (not the back) R 1.121(d).	of ,
 DEPOSIT OF and/or INFORMATION about the dep attached Examiner's comment regarding REQUIREMENT 	OSIT OF BIOLOGICAL MATE FOR THE DEPOSIT OF BIO	ERIAL must be submitted. Note the DLOGICAL MATERIAL.	ıe
Attachment(s)			
1. Notice of References Cited (PTO-892)		formal Patent Application (PTO-152))
 Notice of Draftperson's Patent Drawing Review (PTO-948) 	Paper No.	ummary (PTO-413), Mail Date	
 Information Disclosure Statements (PTO-1449 or PTO/SB Paper No./Mail Date 7/6/04 and 6/18/04 		Amendment/Comment	
 Examiner's Comment Regarding Requirement for Deposit of Biological Material 	8. ⊠ Examiner's 9. □ Other	Statement of Reasons for Allowance)
2. 2.0.000.000.000	5. <u> </u>	- •	

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DETAILED ACTION

Examiner's Amendment

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given by Mr. James Katz during a telephone interview on June 22, 2005.

This Examiner's Amendment was made to correct for minor informalities and to keep the abstract within the range of 50-150 words.

The application has been amended as follows:

The abstract has exceeded the 150 words in length. Replace the abstract with:

-- A power management integrated circuit for monitoring a parameter of a power system includes: an analog front end operative to receive and at least one of amplify, attenuate and filter analog signals representative of at least one of voltage and current in a power system to produce modified analog signals; an analog to digital converter operative to produce digital signals; the logic coupled with the analog to digital converter operative to receive the digital signals and produce a power parameter and the logic includes a processor core; a random access memory coupled with the logic operative to store the power parameter and the logic is operative to implement a setpoint to detect when the power parameter is outside a determined range; and a digital output coupled with the first logic and the digital output is useable to control a switching circuit outside the power management integrated circuit.—

In claim 89: Replace "epresentative" (Line 4) with - representative --.

Allowable Subject Matter

Claims 1-90 are allowed.

The following is a statement of reasons for the indication of allowable subject matter: The prior art of record, taken alone or in combination, fails to disclose or render obvious:

With respect to claim 1, wherein said first logic is operative to implement at least one setpoint to detect when said at least one power parameter is outside a determined range.

With respect to claim 34, analog to digital converter, operative to receive said digital signals, operative to interface to a source of time and associate a timestamp with said digital signals to produce timestamped digital signals

With respect to claims 57 and 89, a control circuit formed as part of said power management integrated circuit coupled with said first logic and operative to control a power supply which supplies operating power to said power management integrated circuit.

Alexander et al (6,292,717) teach a power management integrated circuit comprising an analog front end formed as part of said power management integrated circuit operative to receive and at least one of amplify, and filter analog signals (Column 10: Lines 30-31) representative of at least one of voltage (Column 10: Line 1) and current (Column 9: Line 63) in a power system to produce modified analog signals.

However, Alexander does not teach at least a first logic operative to implement at least one setpoint to detect when said at least one power parameter is outside a determined range; and at least one digital output formed as part of said power management integrated circuit coupled with said first logic, and an analog to digital converter, operative to receive said digital signals, operative to interface to a source of time and associate a timestamp with said digital signals to produce timestamped digital signals.

McGrath et al. (5,461,634) teach a power management integrated circuit comprising an interface (Figure 1: ID 595) formed as part of said power management integrated circuit operative to receive signals

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representative of at least one of voltage and current in a power system (Figure 5) and produce modified signals indicative of said signals (Figure 1: ID 596).

However, McGrath does not teach at least a control circuit formed as part of said power management integrated circuit coupled with said first logic and operative to control a power supply which supplies operating power to said power management integrated circuit.

Claims 2-33, 35-56, 58-88 and 90 are allowed due to their dependency on claims 1, 34, 57 and 89.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Cindy D. Khuu whose telephone number is (571) 272-8585. The examiner can normally be reached on M-F, 8:00-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Barlow can be reached on (571) 272-2269. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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